

pure productivity

durable. effective. filter.

POWDER BED FUSION



THE ORIGINAL
BY HERDING



BENEFITS

SAFE FILTRATION DURING POWDER BED FUSION

In the field of additive manufacturing of metallic materials, more and more attention is being paid to safety aspects. The metallic raw materials are in most cases highly reactive and place maximum demands on sustainable safe handling. The reactive particle loads must therefore not enter the atmosphere of the production room. However, condensate and dust should not remain in the building chamber either as the quality of a build job in almost all additive manufacturing processes is directly related to the degree of embedded contamination and foreign particles.

The optimum solution is offered by the realization of pure surface filtration with the Herding® Sinter-Plate Filters in combination with safe, consistent passivation as well as integration into the inert gas circuit of the systems. Herding® filter media show extremely durability and, depending on the process, long service life times of more than 15 years. Thus, the use of the Herding® Sinter-Plate Filters makes a valuable contribution to occupational safety, environmental protection and sustainability.

**DURABLE
LONG SERVICE LIFE**



**CONSTANT
OPERATING CONDITIONS**



**ENERGY EFFICIENCY DUE
TO LOW CLEANING PRESSURE**



**PURE AIR AND CLEAN GAS DUE TO
LOWEST CLEAN GAS VALUES**



**COMPACT
DESIGN**



**SAFE HANDLING OF
REACTIVE METALS**



**SUSTAINABLE PROVEN
TECHNOLOGY**

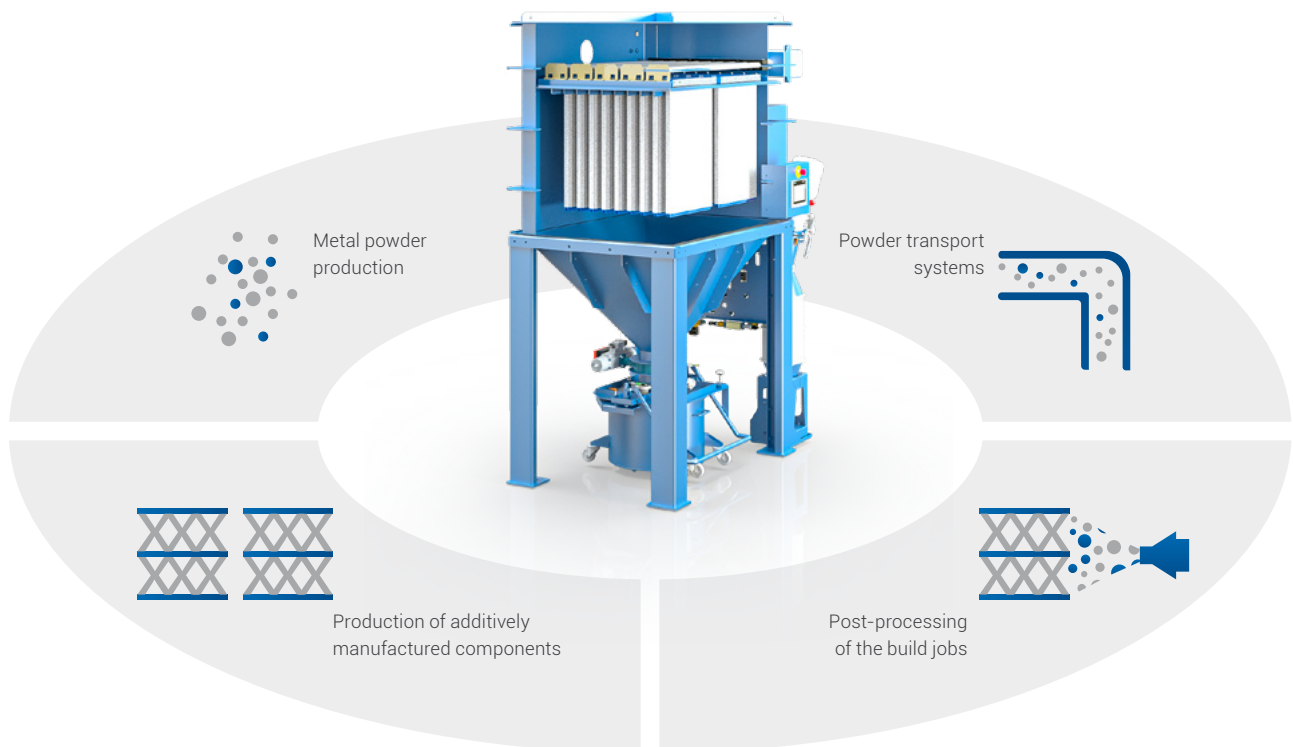


PROCESSES

USE THROUGHOUT THE PROCESS CHAIN

Reliable and efficient filtration is necessary for sustainably safe additive manufacturing processes. Herding® filter technology provides safe handling and constant production in almost all areas of powder bed fusion. This already starts in the production of the metal powder and continues in the component production, in which its safety properties set standards. A sophisticated modular principle allows a variety of Herding system designs which give the possibility to adapt individually to building chamber size as well as the number and power of the lasers.

The systems with the Herding® rigid-body filter medium are also used in the field of integrated automated powder transport systems for the supply and disposal of metal powders as well as in mechanical post processing where support structures are removed and surfaces get optimized.



HERDING FILTERTECHNIK

The production depth in Germany ensures a high-quality standard and enormous flexibility for our customers worldwide. Herding FILTERTECHNIK offers customized and specially developed filter system designs from prototype to series production in order to increase productivity and safety of our customers.

- Gas-tight filter systems with the Herding® Sinter-Plate Filter, which are monitored by redundant proximity sensors, actuators as well as an oxygen sensor and therefore operate safely
- Constant differential pressure due to pure surface filtration ensures optimum laminar flow in the build chambers of additive manufacturing processes
- Integrated vacuum generator
- Independent control system
- Customized enclosure if required

HERDING PROCESS

The series for highest demands

HERDING FLEX

The series specially adapted to the use in AM applications





HERDING COATER

SAFETY BY PASSIVATION

The automatic addition of inert material by the Herding COATER significantly reduces the reactivity of condensate and metal powder residues both during dust discharge and when changing the filter elements, thereby guaranteeing a high level of safety.

Various systems are available for safe dust removal.



CONTACT

Please feel free to contact us! You can fill out the form and send it to us.

Company

Forename

Surname

Phone

E-Mail

Branch

Application

Comments

Herding® ist ein eingetragenes Warenzeichen // V1.1

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